

Lockheed Martin Corporation  
Corporate Energy, Environment, Safety & Health  
7921 Southpark Plaza, Suite 210 - Littleton, CO 80120

SFUND RECORDS CTR  
2462-00242

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110317



April 26, 2001

Mr. Gerard J. Thibeault  
Executive Officer  
California Regional Water Quality Control Board  
Santa Ana Region  
3737 Main Street, Suite 500  
Riverside, California 92501-3339

Dear Mr. Thibeault:

In accordance with the approved Water Supply Contingency Plan, enclosed is one copy of the February 2001 production well sampling report prepared by Earth Tech for Lockheed Martin Corporation. This report presents results from samples collected at Bunker Hill Basin production wells in February 2001.

Should you have any questions or comments, please contact me at 303-971-1880.

Sincerely,

A handwritten signature in black ink, appearing to read "Stephen Evanoff", written over a horizontal line.

Stephen Evanoff  
Director, Redlands Project

Attachment (1)

cc: See Distribution List

Mr. Gerard J. Thibeault

April 26, 2001

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Distribution List

(Abbreviated Report without Attachments "A" & "B", which are available upon request)

Kim Alexander, Psomas Engineering  
Chris Bahnsen, San Bernardino Valley Water Conservation District  
Kalyanpur Baliga, Department of Health Services (San Bernardino)  
Mary Bridgewater, Department of the Air Force, AFBCA  
W. William Bryden, City of San Bernardino  
Tom Crowley, San Bernardino Valley Water Conservation District  
Dodie Farmer, Victoria Farms Mutual Water Company  
Douglas Headrick, City of Redlands  
Ross Lewis, Gage Canal Company  
Steve Mains, Western Municipal Water District  
Morris Matson, Loma Linda University  
Kevin Mayer, US EPA (Region IX)  
Eugene McMeans, Riverside Highland Water Company  
Zahra Panahi, City of Riverside  
Dan Randall, City of Riverside  
Bob Reiter, San Bernardino Valley Municipal Water District  
Toby Roy, Department of Health Services (San Diego)  
Alain Sharp, Earth Technology Corporation  
Greg Snyder, City of Loma Linda  
Glen Thomas, Mountain View Power Company  
Dieter Wirtzfeld, City of Riverside

Mr. Gerard J. Thibeault  
April 26, 2001  
Page 3

bc: Gallop, Johnson & Neuman  
101 S. Hanley Road  
St. Louis, MO 63105  
Attn: Michael Re

Highland Supply Corporation  
111 Sixth Street  
Highland, IL 62249  
Attn: Donald E. Weder

Seven W Enterprises, Inc.  
1500 Crafton Avenue  
P.O. Box 111  
Redlands, CA 92373-1730  
Attn: Janet M. Weder

Mr. Gerard J. Thibeault

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bc: Doug Goins, LMC – Legal  
Ian Hutchison, TRC (Irvine)  
Gene Matsushita, LMC (Burbank)  
John Wiggin, LMC – Corporate Energy, Environment, Safety & Health  
Stephen Evanoff, LMC – Corporate Energy, Environment, Safety & Health  
Gail Rymer, LMC – Communications (Bethesda)  
Bob Simpson, LMC (Riverside)  
Matt Werner, Earth Tech (Long Beach)

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Redlands Repository

Reg File

April 25, 2001

Lockheed Martin Corporation  
West Coast Project Office  
2550 N. Hollywood Way, 3<sup>rd</sup> Floor  
Burbank, California 91505

Attention: Mr. Gene Matsushita  
Project Supervisor

Telephone

562.951.2000

Subject: February 2001 Data Report  
Water Supply Contingency Plan  
Production Well Sampling Program  
Crafton-Redlands Plume Project

Facsimile

562.951.2100

Dear Mr. Matsushita:

This report presents a summary of results of the Water Supply Contingency Plan production well sampling for the month of February 2001. The Water Supply Contingency Plan (WSCP) was prepared by Lockheed Martin Corporation and submitted to the State of California Regional Water Quality Control Board (RWQCB) Santa Ana Region on September 30, 1996. The plan was conditionally approved by the RWQCB in a letter dated March 6, 1997. The WSCP for the Crafton-Redlands Plume was prepared to address maintenance of water supply to purveyors in the event that wells became impacted with trichloroethene (TCE) from the Crafton-Redlands TCE Plume. A summary of key dates and WSCP sampling program evolution is provided on Table 1.

The locations of the WSCP wells and analytical results for the February 2001 sampling event for TCE and perchlorate are shown on Figures 1 and 2, respectively. Table 2 presents a summary of analytical tests performed on each WSCP well and water system sampling point. The sampling frequency of each well is once a month for the first year. More frequent sampling, if required, is based on the analytical results as outlined in the WSCP TCE and perchlorate decision matrices, provided as Figures 3 and 4, respectively. The perchlorate decision matrix was presented in the Perchlorate Work Plan and Schedule, which was submitted to the RWQCB on August 15, 1997. The RWQCB approved the Perchlorate Work Plan on October 31, 1997. Table 3 presents a summary of the wells sampled twice monthly according to the decision matrices.



A tyco INTERNATIONAL LTD. COMPANY

## RESULTS

Summaries of the analytical results for the February 2001 WSCP sampling event for TCE and perchlorate are shown on Figures 1 and 2, respectively, and presented on Table 4. Available groundwater elevation data are provided on Table 5. The water sampling field forms are provided in Attachment A. Chain-of-custody, laboratory data sheets, and Level III laboratory quality assurance/quality control (QA/QC) documentation are provided in Attachment B.

### Trichloroethene

Four groundwater samples collected in February met or exceeded 2/5<sup>th</sup> the MCL for TCE (i.e., were greater than or equal to 2.0 µg/L) including: Richardson #1 (2.2 µg/L), Gage 26-1 (6.3 µg/L), Gage 27-1 (3.6 µg/L) and Gage 29-2 (3.4 µg/L). The TCE impacts at Gage 26-1, Gage 27-1, Gage 29-2 and Gage 29-3 are partially attributed to the Norton AFB plume and partially attributed to the Crafton Redlands plume.

Richardson #1 was activated for sampling only. The purge water from Richardson #1 was pumped to waste, and not into the system. Richardson #1 is currently being sampled twice a month for TCE if active.

Gage 26-1 and Gage 27-1 were placed into TCE treatment in May 1999; TCE treatment was installed at Gage 29-2, Gage 29-3, and Gage 92-1 in February 2000. Therefore, these five wells will be sampled once a month for TCE when active.

### Perchlorate

In the February WSCP sampling, perchlorate was detected at or above 75 percent of the PAL (i.e., greater than or equal to 13.5 µg/L) in Richardson #1 (24 µg/L), Gage 29-2 (26 µg/L), Gage 51-1 (30 µg/L) and Gage 92-1 (16 µg/L).

Gage 26-1, Gage 29-2, Gage 29-3, Gage 51-1, Gage 92-1 and COLL Richardson #1 wells are currently being sampled twice a month for perchlorate, if active.

Richardson #1 was activated for sampling only. The purge water from Richardson #1 was pumped to waste, and not into the system.

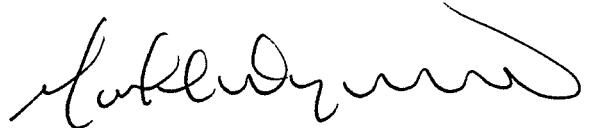
## CLOSING

Earth Tech greatly appreciates being of continued service to Lockheed Martin Corporation on this project. Should you have any questions or comments, please do not hesitate to call.

Sincerely,  
Earth Tech

A handwritten signature in cursive script, appearing to read "Eric Peterson".

Eric Peterson, P.E.  
Program Director

A handwritten signature in cursive script, appearing to read "Matthew Werner".

Matthew Werner, R.G., C.E.G., C.H.  
Project Manager

## TABLES



TABLE 1

## KEY PROJECT DATES AND WSCP SAMPLING PROGRAM EVOLUTION

August 2, 1996, the RWQCB – Santa Ana Region requested Lockheed Martin to submit a conceptual Water Supply Contingency Plan.
September 30, 1996, Lockheed Martin submitted the Water Supply Contingency Plan (WSCP) to the RWQCB – Santa Ana Region.
March 6, 1997, the RWQCB conditionally approved the WSCP, which included sampling eight production wells (City of Loma Linda Richardson #1, Richardson #2, Mountain View #1, Mountain View #2, Victoria Farms Mutual Water Company Wells #1 and #3, and Southern California Edison #1 and #2).
June 1997, Victoria Farms Mutual Water Company was connected of City of San Bernardino Water. Pumping ceased at VFMWC #1 and #3, and the two wells were removed from the program.
June 1997, sampling of SCE #1 was discontinued because it is not operated on a regular basis. The WSCP consists of five wells, including COLL Mountain View #1 and #2, COLL Richardson #1 and #2, and SCE #2 (AUX).
August 1997, the WSCP was expanded due to the detection of perchlorate in municipal supply wells in the Bunker Hill Basin. Twenty-six wells were added to the WSCP including nineteen City of Riverside wells, five City of Redlands wells, and two Loma Linda University wells, for a total of 31 wells.
October 1997, three City of Riverside water system sampling points were added to the WSCP, including the Gage system pipeline (Gage Delivery), the Waterman system pipeline (Iowa Booster), and the sampling station measuring outflow from the Linden and Evans Reservoirs (7 <sup>th</sup> & Chicago).
March 1998, two City of Loma Linda water system sampling points were added to the WSCP, including the Mountain View system pipeline (Mountain View Blend at Lawton) and the Richardson system pipeline (Richardson Blend).
June 1998, one City of Riverside irrigation water system sampling point (Gage Arlington) and one additional City of Loma Linda water system sampling point (Mountain View Blend at Timoteo) were added to the WSCP.
December 1998, the COLL Richardson #3 well was added to the WSCP Sampling Program.
May 1999, Sampling of Mountain View Blend at Timoteo was discontinued because it does not represent a blend sample of the Mountain View pipeline system.
December 1999, the COLL Mountain View #3 well and the Gage 98-1 well were added to the WSCP Sampling Program
February 2000, the COLL Richardson #2 well was decommissioned, and therefore removed from the WSCP Sampling Program.
May 2000, Mountain View #2 was decommissioned, and therefore removed from the WSCP Sampling Program.
October 2000, COLL Mountain View #4 and COLL Richardson #4 were added to the WSCP Sampling Program.

TABLE 2

## WSCP PRODUCTION WELL SAMPLING PROGRAM

Well Number	Well Name	Perchlorate	TCE
City of Loma Linda			
3106	Mountain View #3	X	X
3171	Mountain View #4	X	X
693	Richardson #1	X	X
707	Richardson #3	X	X
3132	Richardson #4	X	X
City of Loma Linda Water System Sampling Points			
2967	Mountain View Blend - Lawton	X	X
2968	Richardson Blend	X	X
Southern California Edison			
554	SCE #2 (AUX)	X	X
Loma Linda University			
267	LL Univ Anderson #2	X	
717	LL Univ Anderson #3	X	
City of Riverside (Gage System)			
252	Gage #26-1	X	X
258	Gage #27-1	X	X
259	Gage #27-2	X	X
260	Gage #29-1	X	X
219	Gage #29-2	X	X
220	Gage #29-3	X	X
218	Gage #30-1	X	X
214	Gage #31-1	X	X
215	Gage #46-1	X	X
253	Gage #51-1	X	X
216	Gage #56-1	X	X
257	Gage #66-1	X	X
644	Gage #92-1	X	X
641	Gage #92-2	X	X
642	Gage #92-3	X	X
3091	Gage #98-1	X	X
City of Riverside (Waterman System)			
273	Hunt #6	X	
271	Hunt #10	X	
272	Hunt #11	X	
City of Riverside Water System Sampling Points			
2946	Iowa Booster (Waterman)	X	X
2947	Gage Delivery (Gage)	X	X
2948	7th & Chicago (Reservoir)	X	X
3018	Gage Arlington	X	
City of Redlands			
542	COR Church St	X	
2673	COR #38	X	
535	COR Mentone Acres	X	
29	COR Orange St	X	
74	COR Rees	X	X

## Notes:

TCE = Trichloroethene

Perchlorate analyzed using DHS Method (EPA 300.0 Modified)

TCE analyzed using EPA Method 502.2

TABLE 3

WSCP PRODUCTION WELL SAMPLING PROGRAM  
FEBRUARY 2001 WELLS SAMPLED TWICE MONTHLY

Well Number	Well Name	Perchlorate	TCE
City of Loma Linda			
692	Richardson #1	X	X
City of Riverside (Gage System)			
219	Gage #29-2	X	
220	Gage #29-3	X	
253	Gage #51-1	X	
644	Gage #92-1	X	

Notes:

TCE = Trichloroethene

Perchlorate analyzed using DHS Method (EPA 300.0 Modified)

TCE analyzed using EPA Method 502.2

TABLE 4

**WSCP PRODUCTION WELL SAMPLING PROGRAM  
FEBRUARY 2001 DATA RESULTS**

Well Number	Well Name	Sample Date	Perchlorate (ug/L) Del Mar	TCE (ug/L) Del Mar
<b>City of Loma Linda</b>				
3106	Mountain View #3	NS	NS	NS
3171	Mountain View #4	2/1/01	ND (4.0)	ND (0.5)
693	Richardson #1 <sup>c</sup>	2/1/01	24	2
693	Richardson #1 <sup>c</sup>	2/15/01	24	2.2
707	Richardson #3 <sup>a</sup>	NS	NS	NS
3132	Richardson #4	2/1/01	ND (4.0)	ND (0.5)
<b>City of Loma Linda Water System Sampling Points</b>				
2967	Mountain View Blend - Lawton	2/1/01	ND (4.0)	ND (0.5)
2968	Richardson Blend	2/1/01	ND (4.0)	ND (0.5)
2968	Richardson Blend (Duplicate)	2/1/01	ND (4.0)	ND (0.5)
<b>Mountain View Power (Formerly Southern California Edison)</b>				
554	SCE #2 (AUX) <sup>a</sup>	NS	NS	NS
<b>Loma Linda University</b>				
267	LL Univ Anderson #2	2/2/01	6.4	NA
717	LL Univ Anderson #3	2/2/01	5	NA
<b>City of Riverside (Gage System)</b>				
252	Gage #26-1 <sup>b</sup>	2/2/01	11	6.3
258	Gage #27-1 <sup>b</sup>	2/2/01	6.9	3.6
258	Gage #27-1 <sup>b</sup> (Duplicate)	2/2/01	6.7	3.5
259	Gage #27-2	2/2/01	11	ND (0.5)
260	Gage #29-1	2/2/01	8	ND (0.5)
219	Gage #29-2 <sup>b</sup>	2/2/01	25	3.4
219	Gage #29-2 <sup>b</sup>	2/15/01	26	NA
220	Gage #29-3 <sup>b</sup>	NS	NS	NS
218	Gage #30-1 <sup>a</sup>	2/2/01	ND (4.0)	ND (0.5)
214	Gage #31-1	2/2/01	ND (4.0)	ND (0.5)
215	Gage #46-1	2/2/01	4.6	ND (0.5)
253	Gage #51-1 <sup>b</sup>	2/2/01	29	0.65
253	Gage #51-1 <sup>b</sup>	2/15/01	30	NA
253	Gage #51-1 <sup>b</sup> (Duplicate)	2/15/01	30	NA
216	Gage #56-1 <sup>a</sup>	2/2/01	ND (4.0)	ND (0.5)
257	Gage #66-1	2/2/01	12	ND (0.5)
644	Gage #92-1 <sup>b</sup>	2/2/01	16	0.95
644	Gage #92-1 <sup>b</sup>	2/15/01	13	NA
641	Gage #92-2 <sup>a</sup>	NS	NS	NS
642	Gage #92-3 <sup>a</sup>	NS	NS	NS
3091	Gage #98-1	NS	NS	NS
<b>City of Riverside (Waterman System)</b>				
273	Hunt #6	NS	NS	NS
271	Hunt #10	NS	NS	NS
272	Hunt #11	NS	NS	NS
<b>City of Riverside Water System Sampling Points</b>				
2946	Iowa Booster (Waterman)	2/1/01	ND (4.0)	ND (0.5)
2947	Gage Delivery (Gage)	2/1/01	ND (4.0)	ND (0.5)
2948	7th & Chicago (Reservoir)	2/1/01	5.9	ND (0.5)
3018	Gage Arlington	NS	NS	NS
<b>City of Redlands</b>				
542	COR Church St <sup>a</sup>	NS	NS	NS
2673	COR #38 <sup>a</sup>	NS	NS	NS
535	COR Mentone Acres <sup>a</sup>	NS	NS	NS
29	COR Orange St <sup>a</sup>	NS	NS	NS
74	COR Rees	NS	NS	NS

**Notes:**

\* = Twice-monthly sampling result

ND(4) = Not detected at the specified limit

NA = Not Analyzed

NS = Not Sampled

TCE = Trichloroethene

Perchlorate analyzed using DHS Method (EPA 300.0 Modified)

TCE analyzed using EPA Method 502.2

a = Well sampled on quarterly basis, if active

b = TCE treatment is installed

c = Water purged to waste and not into system

TABLE 5

**SUMMARY OF WATER LEVEL MEASUREMENTS  
FEBRUARY 2001 SAMPLING EVENT**

Well Number	Well Name	Measure Date	Depth to Water	Measuring Point Elevation	Groundwater Elevation	Comments
<b>City of Loma Linda</b>						
3106	Mountain View #3	2/5/01	105	1086	981	Pumping
3171	Mountain View #4	2/5/01	197	1106	909	Pumping
693	Richardson #1	2/5/01	146	1077	931	Static
707	Richardson #3	2/5/01	195	1078.69	883.69	Pumping
3132	Richardson #4	2/5/01	139	1074	935	Pumping
<b>Mountain View Power (Formerly Southern California Edison)</b>						
554	SCE #2 (AUX)	NM	NM	1100	NM	Pumping
<b>Loma Linda University</b>						
267	LL Univ Anderson #2	NM	NM	1075	NM	Pumping
717	LL Univ Anderson #3	NM	NM	1070	NM	Pumping
<b>City of Riverside (Gage System)</b>						
252	Gage #26-1	2/13/01	84.90	1045.33	960.43	Pumping
258	Gage #27-1	2/13/01	79.70	1044.64	964.94	Pumping
259	Gage #27-2	2/13/01	68.10	1044.64	976.54	Static
260	Gage #29-1	2/13/01	68.00	1044.43	976.43	Static
219	Gage #29-2	2/13/01	78.70	1046.31	967.61	Pumping
220	Gage #29-3	2/13/01	56.50	1048.75	992.25	Static
218	Gage #30-1	2/13/01	82.70	1054.17	971.47	Static
214	Gage #31-1	2/13/01	70.90	1054.64	983.74	Static
215	Gage #46-1	2/13/01	77.70	1065.5	987.8	Static
253	Gage #51-1	2/13/01	140.70	1044.64	903.94	Pumping
216	Gage #56-1	2/13/01	117.70	1065.5	947.8	Static
257	Gage #66-1	2/13/01	80.20	1044.85	964.65	Static
644	Gage #92-1	2/13/01	134.80	1047.78	912.98	Pumping
641	Gage #92-2	2/13/01	178.90	1053.38	874.48	Pumping
642	Gage #92-3	2/13/01	136.80	1058.78	921.98	Static
3091	Gage #98-1	2/13/01	166.50	1058.78	892.28	Pumping
<b>City of Riverside (Waterman System)</b>						
273	Hunt #6	NM	NM	1015.5	NM	Static
271	Hunt #10	NM	NM	1017	NM	Static
272	Hunt #11	NM	NM	1015.7	NM	Static
<b>City of Redlands</b>						
542	COR Church St	2/2/01	136.0	1344.8	1208.8	Static
2673	COR #38	2/2/01	87.0	1193	1106	Static
535	COR Mentone Acres	2/2/01	252.0	1506.4	1254.4	Static
29	Cor Orange St	2/2/01	128.0	1282	1154	Static
74	COR Rees	2/2/01	239.0	1490	1251	Static

**Notes:**

All measurements reported in feet below measuring point (ft-bmp)

Water level measurements for all City of Loma Linda, City of Riverside, and City of Redlands wells were obtained by purveyor personnel.

Elevations given in feet above mean sea level (ft-msl)

NM = Not measured

NA = Data not available

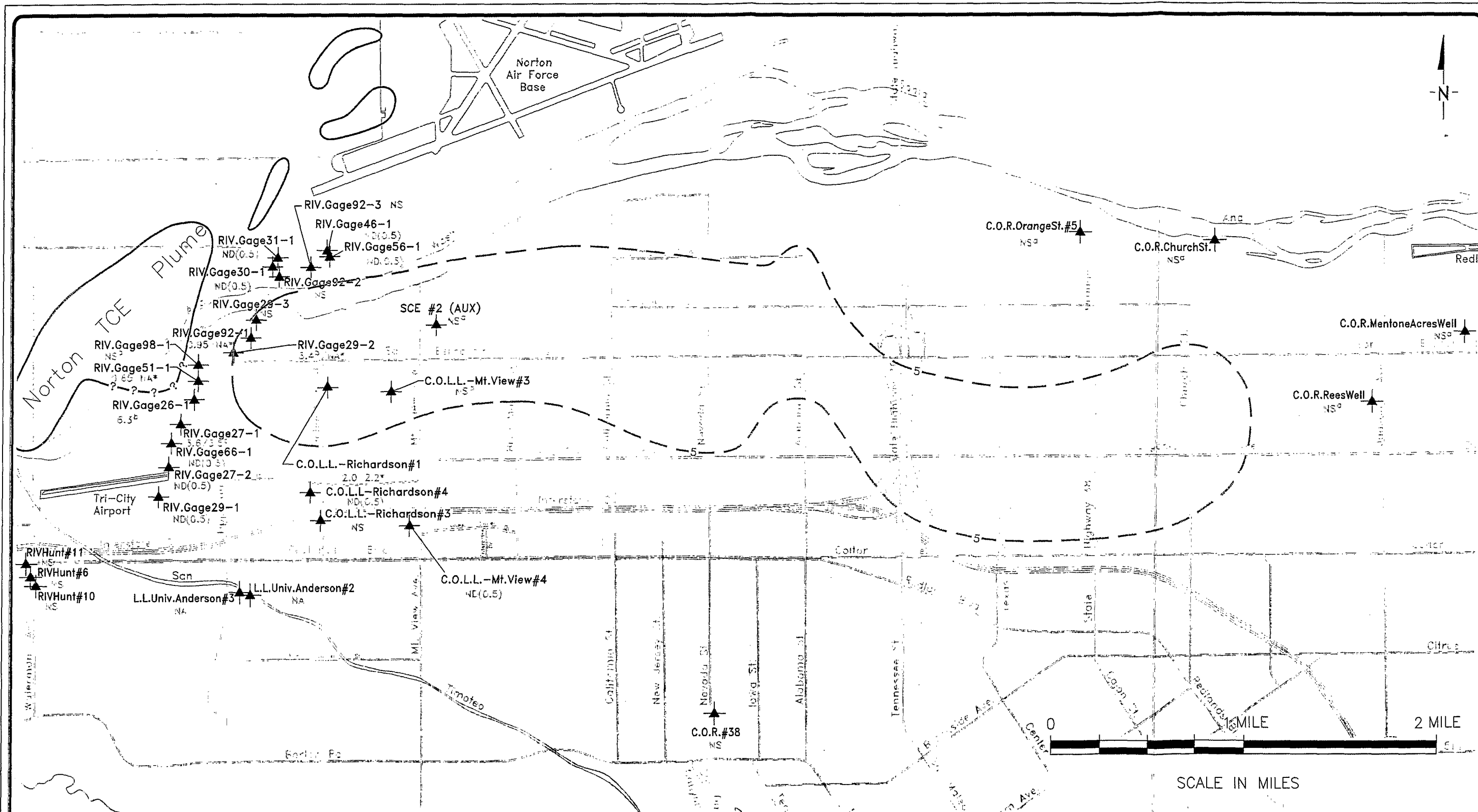
Static water levels were allowed to recover a minimum of 30 minutes to obtain a static water level measurement

TABLE 6

**WSCP PRODUCTION WELL SAMPLING PROGRAM  
FEBRUARY 2001 SAMPLE IDENTIFICATIONS**

Well Number	Well Name	Sample Date	Sample Time	Sample Number Identification	Analyzed for Perchlorate	Analyzed for TCE
<b>City of Loma Linda</b>						
3106	Mountain View #3	NS	NS	NS	NS	NS
3171	Mountain View #4	2/1/01	12:10	GW-2-6	Yes	Yes
693	Richardson #1	2/1/01	9:50	GW-2-1	Yes	Yes
693	Richardson #1	2/15/01	9:50	GW-2-25	Yes	Yes
707	Richardson #3	NS	NS	NS	NS	NS
3132	Richardson #4	2/1/01	10:15	GW-2-2	Yes	Yes
<b>City of Loma Linda Water System Sampling Points</b>						
2967	Mountain View Blend - Lawton	2/1/01	11:40	GW-2-5	Yes	Yes
2968	Richardson Blend	2/1/01	11:00	GW-2-3	Yes	Yes
2968	Richardson Blend (Duplicate)	2/1/01	11:05	GW-2-4	Yes	Yes
<b>Mountain View Power (Formerly Southern California Edison)</b>						
554	SCE #2 (AUX)	NS	NS	NS	NS	NS
<b>Loma Linda University</b>						
267	LL Univ Anderson #2	2/2/01	14:35	GW-2-23	Yes	NA
717	LL Univ Anderson #3	2/2/01	14:50	GW-2-24	Yes	NA
<b>City of Riverside (Gage System)</b>						
252	Gage #26-1	2/2/01	10:25	GW-2-13	Yes	Yes
258	Gage #27-1	2/2/01	10:55	GW-2-14	Yes	Yes
258	Gage #27-1	2/2/01	11:00	GW-2-15	Yes	Yes
259	Gage #27-2	2/2/01	12:00	GW-2-17	Yes	Yes
260	Gage #29-1	2/2/01	12:20	GW-2-18	Yes	Yes
219	Gage #29-2	2/2/01	9:35	GW-2-11	Yes	Yes
219	Gage #29-2	2/15/01	12:55	GW-2-29	Yes	No
220	Gage #29-3	NS	NS	NS	NS	NS
218	Gage #30-1	2/2/01	13:45	GW-2-22	Yes	Yes
214	Gage #31-1	2/2/01	13:25	GW-2-21	Yes	Yes
215	Gage #46-1	2/2/01	12:40	GW-2-19	Yes	Yes
253	Gage #51-1	2/2/01	10:00	GW-2-12	Yes	Yes
253	Gage #51-1	2/15/01	11:15	GW-2-27	Yes	No
253	Gage #51-1 (Duplicate)	2/15/01	11:20	GW-2-28	Yes	No
216	Gage #56-1	2/2/01	13:00	GW-2-20	Yes	Yes
257	Gage #66-1	2/2/01	11:35	GW-2-16	Yes	Yes
644	Gage #92-1	2/2/01	9:10	GW-2-10	Yes	Yes
644	Gage #92-1	2/15/01	10:50	GW-2-26	Yes	No
641	Gage #92-2	NS	NS	NS	NS	NS
642	Gage #92-3	NS	NS	NS	NS	NS
3091	Gage #98-1	NS	NS	NS	NS	NS
<b>City of Riverside (Waterman System)</b>						
273	Hunt #6	NS	NS	NS	NS	NS
271	Hunt #10	NS	NS	NS	NS	NS
272	Hunt #11	NS	NS	NS	NS	NS
<b>City of Riverside Water System Sampling Points</b>						
2946	Iowa Booster (Waterman)	2/1/01	15:30	GW-2-7	Yes	Yes
2947	Gage Delivery (Gage)	2/1/01	16:00	GW-2-8	Yes	Yes
2948	7th & Chicago (Reservoir)	2/1/01	16:30	GW-2-9	Yes	Yes
3018	Gage Arlington	NS	NS	NS	NS	NS
<b>City of Redlands</b>						
542	COR Church St	NS	NS	NS	NS	NS
2673	COR #38	NS	NS	NS	NS	NS
535	COR Mentone Acres	NS	NS	NS	NS	NS
29	COR Orange St	NS	NS	NS	NS	NS
74	COR Rees	NS	NS	NS	NS	NS

**FIGURES**



# EXPLANATION

▲ Wells Currently Sampled Under the Existing WSCP Sampling Program

3.2 TCE Results (µg/L)

a Quarterly Sampling Results

b Well Currently Being Treated for TCE

c Water Purged to Waste and not Into System

L:\REMEDATION\LMC\WSCP\CAD\MONTHLY REPORT\FEBRUARY01TCEREPORT.dwg

--- 5 --- Approximate TCE Plume Location 5 µg/L (2000 Interpretation of Redlands Plume)

--- 5 --- Approximate TCE Plume Location 5 µg/L (Earth Tech June 1999 Interpretation of Norton AFB Plume)

ND(0.5) Not Detected at Indicated Detection Limit

NS Not Sampled

NA Not Analyzed

\* Twice-Monthly Sampling Results

## Blending Point Sampling Data

ND(0.5) C.O.L.L. Mountain View Blend at Lawton

ND(0.5) ND(0.5) C.O.L.L. Richardson Blend

ND(0.5) Riv. Iowa Booster (Waterman)

ND(0.5) Riv. Gage Delivery (Gage)

ND(0.5) Riv. 7th + Chicago (Reservoir)

NS Gage Arlington

**TITLE:** WSCP Production Well Sampling Program  
TCE Data Results February 2001

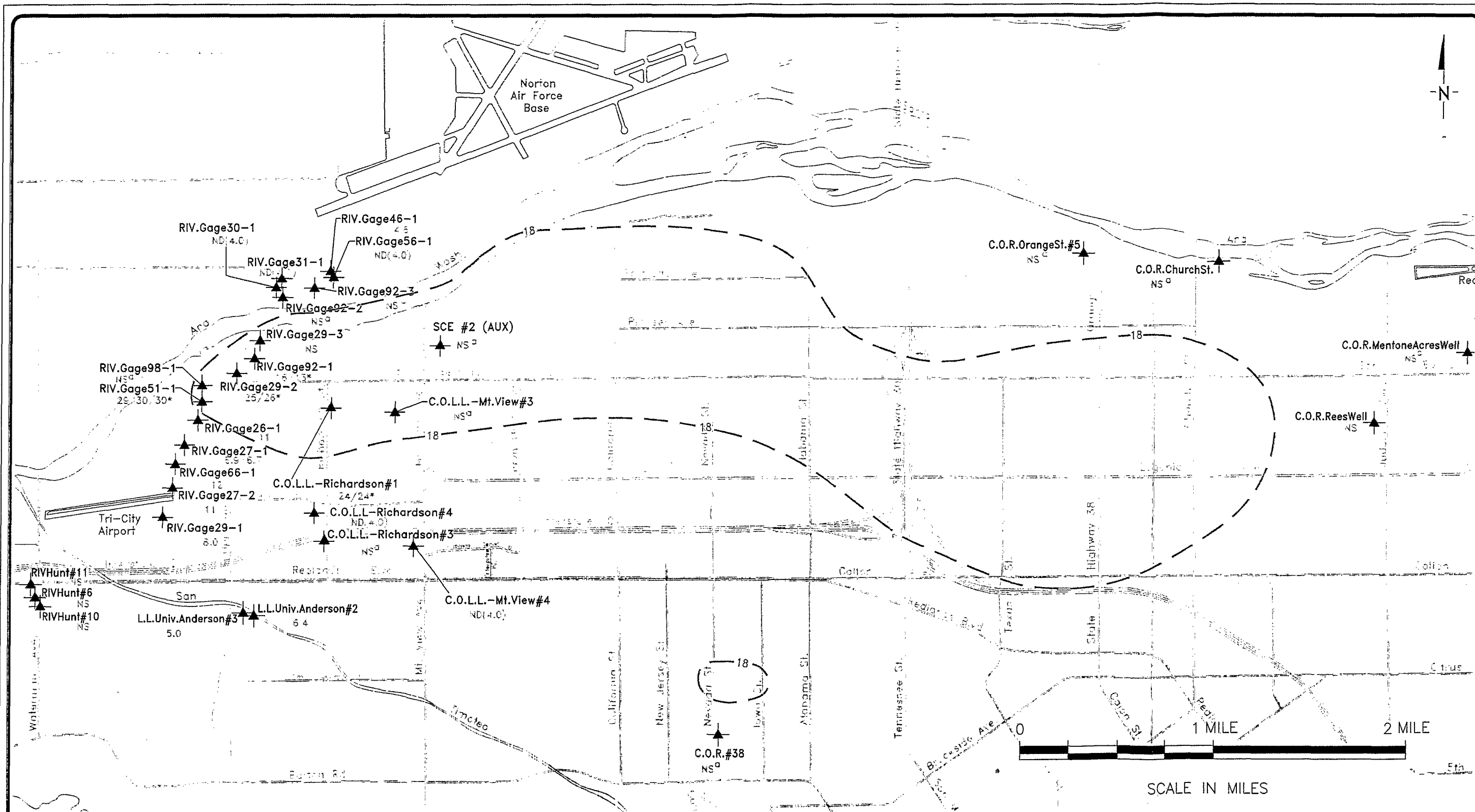
**LOCATION:** LOCKHEED MARTIN  
REDLANDS, CALIFORNIA

**EARTH TECH**  
A tyco INTERNATIONAL LTD. COMPANY

**CHECKED:** Liles Cobb  
**DRAFTED:** Mohir Waber  
**PROJ.:** 38872  
**DATE:** 03/05/01

**FIGURE:** 1





# EXPLANATION

- ▲ Wells Currently Sampled Under the Existing WSCP Sampling Program
- 18- Approximate 18 µg/L Perchlorate Plume Location (2000 Interpretation)
- \* Twice-Monthly Sampling Results

- 46 Perchlorate (µg/L) Results
- ND(4.0) Not Detected at Indicated Detection Limit
- NS Not Sampled
- Quarterly Sampling Results
- b Water Purged to Waste and not Into System

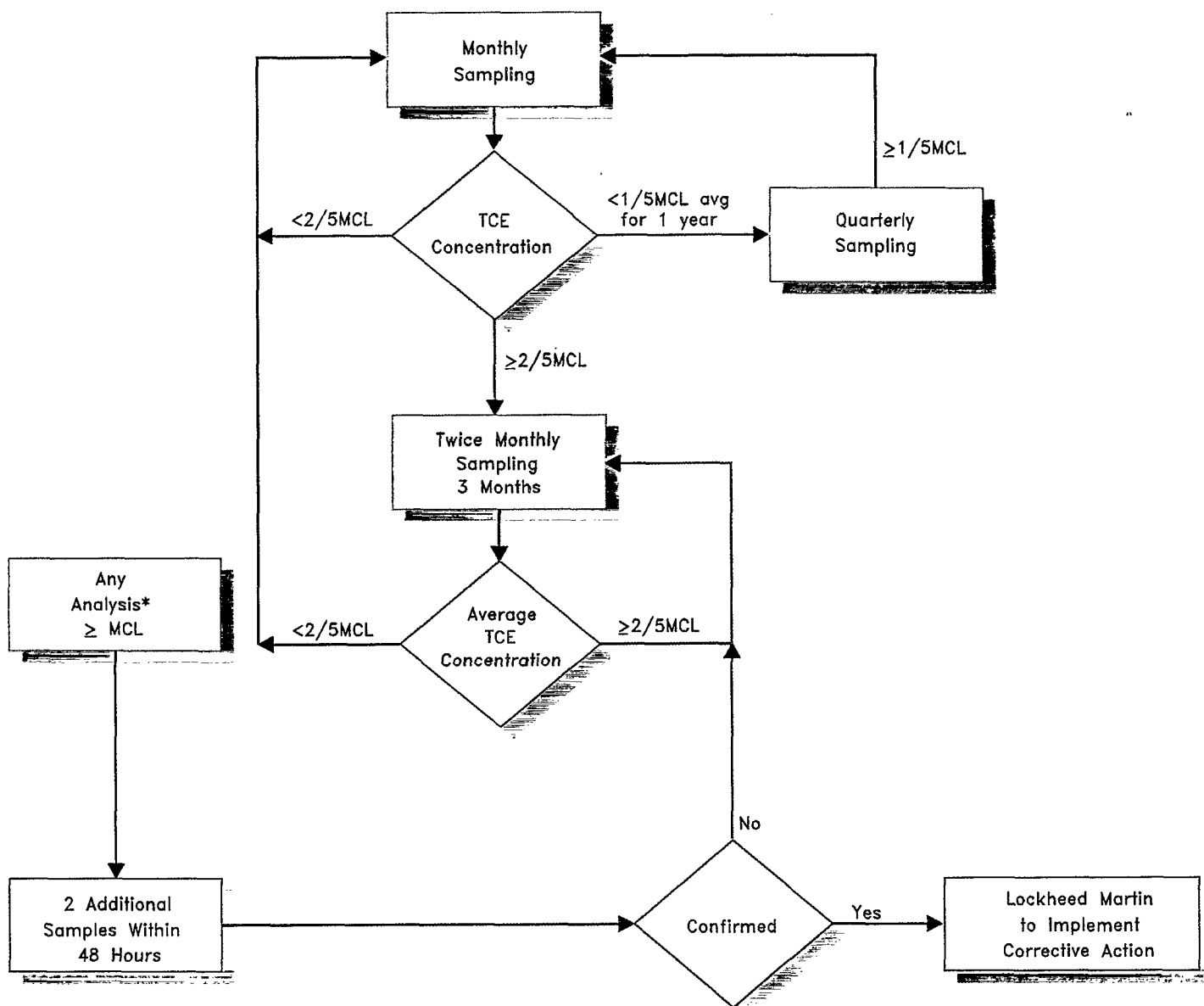
## Blending Point Sampling Data

- ND(4.0) C.O.L.L. Mountain View Blend - Lawton
- ND(4.0) C.O.L.L. Richardson Blend
- ND(4.0) Riv. Iowa Booster (Waterman)
- ND(4.0) Riv. Gage Delivery (Gage)
- 5.9 Riv. 7th + Chicago (Reservoir)
- NS Gage Arlington

TITLE: WSCP Production Well Sampling Program  
Perchlorate Data Results February 2001

LOCATION: LOCKHEED MARTIN  
REDLANDS, CALIFORNIA

EARTH TECH A tyco INTERNATIONAL LTD. COMPANY	CHECKED:	Liles Cobb	FIGURE:  2
	DRAFTED:	Mohir Waber	
	PROJ.:	38872	
	DATE:	03/05/01	

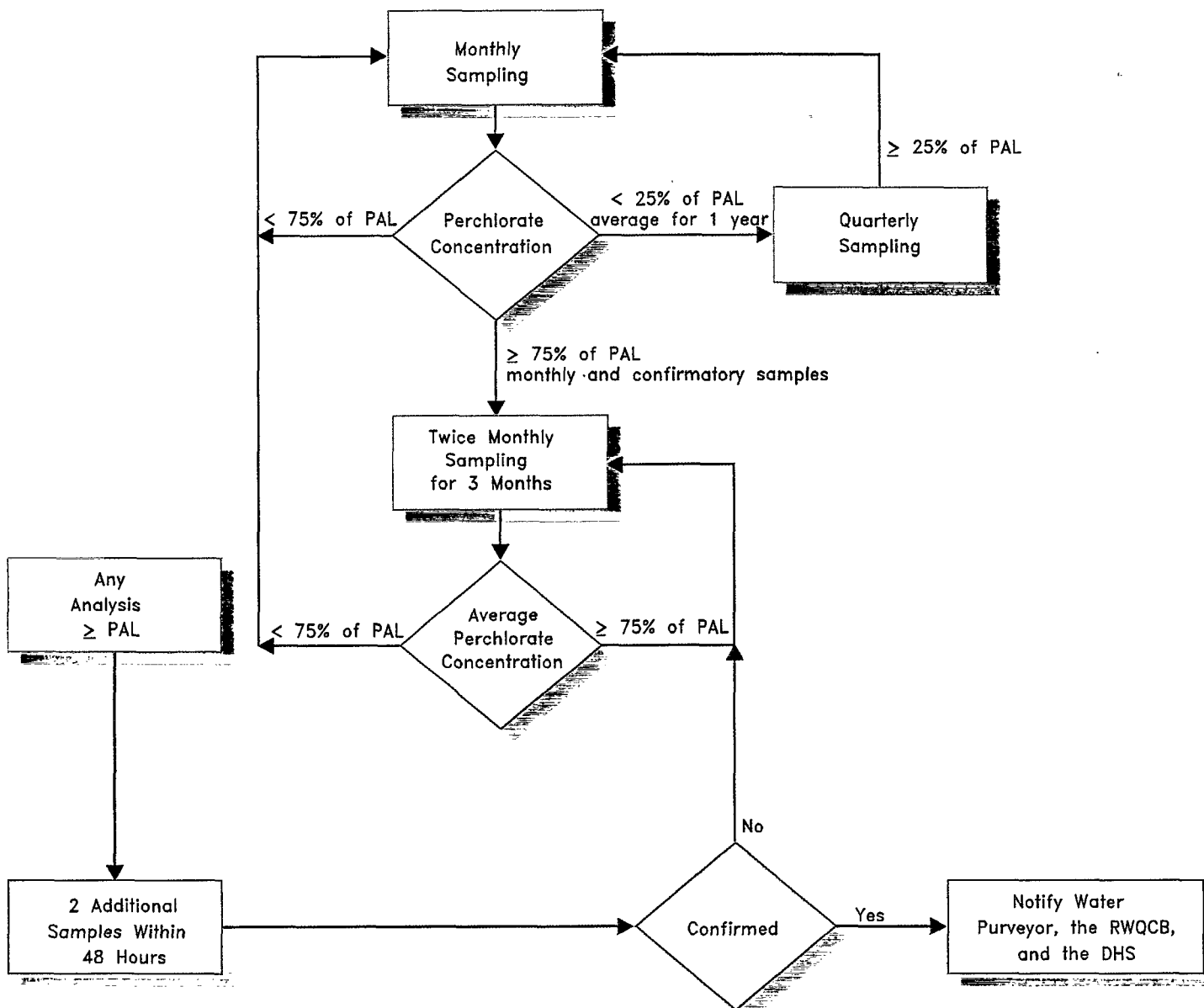


**Footnote:**

\* If, at a specific well, blending is occurring to provide acceptable water for compounds other than TCE, then no corrective action may be necessary as long as the concentration of TCE is less than 5.0 µg/L in the finished water.

TCE MCL = 5 µg/L (California Regulations, Title 22, Division 4, Chapter 15, Section 64444)

TITLE: Decision Matrix for Sampling of Production Wells for TCE from the Crafton-Redlands Plume		FIGURE: <b>3</b>
LOCATION: LOCKHEED MARTIN REDLANDS, CALIFORNIA		
EARTH TECH A tyco INTERNATIONAL LTD. COMPANY	CHECKED: Liles Cobb DRAFTED: Lee Mehr PROJ.: 38872 DATE: 04/28/00	



**Footnote:**

Perchlorate Provisional Action Level (PAL) = 18 µg/L (California Department of Health Services, May 1997)

TITLE:

Decision Matrix for Sampling Production Wells for Perchlorate

LOCATION:

LOCKHEED MARTIN  
REDLANDS, CALIFORNIA

EARTH  TECH

A **tyco** INTERNATIONAL LTD. COMPANY

CHECKED:	Liles Cobb
DRAFTED:	Lee Mehr
PROJ.:	38872
DATE:	04/28/00

FIGURE:

4

**ATTACHMENT A**  
**FIELD SAMPLE FORMS**  
**(Available Upon Request)**

**ATTACHMENT B**

**CHAIN-OF-CUSTODY RECORDS AND  
LABORATORY DATA SHEETS AND LEVEL III MODIFIED  
QUALITY ASSURANCE/QUALITY CONTROL DOCUMENTATION  
(Available Upon Request)**